

Subject: ETS MPS/PM-1 (Aqua) Engineering Release 6.4 Delivery Letter
Date: Tue, 3 Jul 2001 16:25:30 -0400
From: Ernest Quintin <equintin@csc.com>
To: Willie Fuller <wfuller@pop500.gsfc.nasa.gov>

Willie,

We are pleased to deliver Release 6.4 of the ETS Multimode Portable Simulator for PM-1 (MPS/Aqua). This engineering release delivery provides a resolution to Discrepancy Report (DR) SMOdr11184, as detailed in Attachment A and in the ESDIS DR Tracking Tool (DRTT).

There are three attachments to this letter:

- Attachment A describes the DR and provides installation instructions for this release.
- Attachment B contains an updated release history summary matrix.
- Attachment C contains an updated Mission Systems Configuration Management (MSCM) form.

The updated software executable modules are being delivered on CD-ROM. Two copies of the CD are being given to Guy Cordier, who will forward one copy to Raytheon at Denver and will use the other for installation on the MPS/Aqua simulator PCs in the Bldg 32 EOS ISR and LSR at GSFC. The updated software is also being installed on the serial card-equipped PCs in the Bldg 25 Simulations Operations Center and on the portable PCs, in the event that any of those units are needed to support upcoming Aqua data flows.

There are no User's Guide updates for this release.

If you have any questions about this delivery, please do not hesitate to contact me or Dave Green.

Ernest Quintin
301-805-3649

(See attached file: AttachA.doc)(See attached file: AttachB.doc)(See attached file: AttachC.doc)

CC:

alan.johns@gsfc.nasa.gov, Alexander.Krimchansky.1@gsfc.nasa.gov,
gcordier@rattler-f.gsfc.nasa.gov, kcklem@west.raytheon.com,
arhabeger@west.raytheon.com, wjohnson@eoc.ecs.nasa.gov,
rmessery@mail.gbtl.averstar.com, vhruland@west.raytheon.com,
pburrows@csc.com, jcarlson@csc.com, klavery@pop500.gsfc.nasa.gov,
Van.Grant@honeywell-tsi.com, eshurie@pop400.gsfc.nasa.gov,
lhepfer@csc.com, enoone@csc.com, klehtone@pop500.gsfc.nasa.gov,
frank.scoville@omitron.com, fxu@csc.com, tnguye66@csc.com,
rwinters@mail.gbtl.averstar.com, ggarner@rattler-f.gsfc.nasa.gov,
dsgreen@csc.com

Attachment A - Release 6.4 Delivery Contents and Installation Instructions

The changes made to the MPS/Aqua software since the delivery of Release 6.3 are in response to the following Change Request (CR):

DR: SMODr11184 (ETS0442) Related NCR: Submitted: 010629
Status: NEW Class: ETS

Title: Changes to database require changes to APID 1000 in MPS

SUBMITTAL INFORMATION

Project: ETS
DR Type: Change Request
Rel/Ver: 6.3
Subsystem: MPS-PM/Aqua
Module: Simulator
Affected-Requirement:
Test Phase: unit test
Severity: 2
Date found: 010623
Location: Denver
Submitter: Vince Ruland
Organization: EMOS
Phone number: 720-895-4068
Email: vhruland@west.raytheon.com

***** Problem (Added 010629 by vruland) *****

TRW has made changes to the TIE clock correlation packet on the spacecraft, these changes need to be carried through to the ONLINE software and the MPS simulator to verify clock correlation functionality. The packet is expected to change in the following manner:

Table I Old Firmware

Spacecraft Timed-Event Clock Sample Storage

1553 Transmit Subaddress #2

Word #1	Spacecraft time (bits 15:0)
Word #2	Spacecraft time (bits 31:16)
Word #3	Spacecraft time (bits 47:32)
Word #4	Spacecraft time (bits 63:48)
Word #5	EPOCH TOD time (bits 15:0)
Word #6	EPOCH TOD time (bits 31:16)
Word #7	EPOCH TOD time (bits 47:32)
Word #8	EPOCH TOD time (bits 63:48)/VCDU Sequence Count MSW (bits 31:16)
Word #9	VCDU Sequence Count LSW (bits 15:0)
Word #10	

The firmware has been corrected to write to words 9 and 10 per Table II New and Improved Firmware.

Table II New and Improved Firmware

Spacecraft Timed-Event Clock Sample Storage

1553 Transmit Subaddress #2

Word #1	Spacecraft time (bits 15:0)
Word #2	Spacecraft time (bits 31:16)
Word #3	Spacecraft time (bits 47:32)
Word #4	Spacecraft time (bits 63:48)
Word #5	EPOCH TOD time (bits 15:0)
Word #6	EPOCH TOD time (bits 31:16)
Word #7	EPOCH TOD time (bits 47:32)
Word #8	EPOCH TOD time (bits 63:48)
Word #9	VCDU Sequence Count MSW (bits 31:16)
Word #10	VCDU Sequence Count LSW (bits 15:0)

Words 9 & 10 are the values that have changed in the database and effect the VCDU sequence count location.

The changed modules are:

Executable Module	Files
SCPM1.dll	ClwPacket.cpp, TlmPacket.cpp, TlmVirtualChannel.cpp
nett.properties	Client properties description file.
property.txt	Server properties description file.

Installation Instructions

The changed executable modules are contained within three folders on the delivered CD.

To install this release:

- navigate to the *Server* folder on the CD, select *SCPM1.dll*, and copy it to the *C:\Program Files\csc\PM1 Server 6.3* folder, replacing the file of the same name.
- navigate to the *Server\properties* folder on the CD, select the *property.txt* file, and copy it to the *C:\Program Files\csc\PM1 Server 6.3\properties* folder, replacing the file of the same name.
- navigate to the *Client\properties* folder on the CD, select the *nett.properties* file, and copy it to the *C:\Program Files\csc\PM1 Client 6.3\properties* folder, replacing the file of the same name.

Attachment B - Release History Summary Matrix

Attached is the release history summary matrix, which reflects the MPS/Aqua Release 6.4 delivery. Modules inherited from the SIMSS baseline have the SIMSS Release Number, while the MPS/Aqua modules EOSGS and SCPM1 have the current MPS/Aqua Release Number.

Release History Summary Matrix

System: **MPS/Aqua**

Release Number		1.0	1.1	2.0	2.1	2.2	3.0	3.1	4.0	5.0	5.1	6.0 Beta	6.0 Beta Update 1
Delivery Date		7/30/99	9/2/99	9/24/99	10/25/99	11/18/99	12/17/99	1/21/00	3/17/00	5/12/00	6/22/00	7/28/00	9/14/00
Configuration Item	CI No.												
Core (Client)	1.1	1.0	1.0	2.0	2.0	2.0	3.0	1.0	1.0	1.1	1.1	2.0	2.0
Core (Server)	1.2	1.0	1.0	2.0	2.0	2.0	3.0	1.0	1.0	1.1	1.1	2.0	2.0
SC-PM1 (Client)	1.3	1.0	1.1	2.0	2.1	2.2	3.0	3.1	4.0	5.0	5.0	6.0	6.0
SC-PM1 (Server)	1.4	1.0	1.1	2.0	2.1	2.2	3.0	3.1	4.0	5.0	5.1	6.0	6.0
GS (Client)	1.5	1.0	1.1	2.0	2.1	2.2	3.0	3.1	4.0	5.0	5.0	6.0	6.0
GS (Server)	1.6	1.0	1.1	2.0	2.1	2.2	3.0	3.1	4.0	5.0	5.0	6.0	6.0
IP Input (Client)	1.7	1.0	1.0	2.0	2.0	2.0	3.0	1.0	1.0	1.1	1.1	2.0	2.0
IP Input (Server)	1.8	1.0	1.0	2.0	2.0	2.0	3.0	1.0	1.0	1.1	1.1	2.0	2.0
IP Output (Client)	1.9	1.0	1.0	2.0	2.0	2.0	3.0	1.0	1.0	1.1	1.1	2.0	2.0
IP Output (Server)	2.0	1.0	1.0	2.0	2.0	2.0	3.0	1.0	1.0	1.1	1.1	2.0	2.0
DQM (Client) ¹	2.1												
DQM (Server) ¹	2.2												
Logging (Client)	2.3	1.0	1.0	2.0	2.0	2.0	3.0	1.0	1.0	1.1	1.1	2.0	2.0

¹ To be delivered in a future release

Release Number		1.0	1.1	2.0	2.1	2.2	3.0	3.1	4.0	5.0	5.1	6.0 Beta	6.0 Beta Update 1
Delivery Date		7/30/99	9/2/99	9/24/99	10/25/99	11/18/99	12/17/99	1/21/00	3/17/00	5/12/00	6/22/00	7/28/00	9/14/00
Configuration Item	CI No.												
Logging (Server)	2.4	1.0	1.0	2.0	2.0	2.0	3.0	1.0	1.0	1.1	1.1	2.0	2.0
Scenario (Client) ²	2.5								1.0	1.1	1.1	2.0	2.0
Scenario (Server) ²	2.6								1.0	1.1	1.1	2.0	2.0
Serial Input (Client) ²	2.7								1.0	1.1	1.1	2.0	2.0
Serial Input (Server) ²	2.8								1.0	1.1	1.1	2.0	2.0
Serial Output (Client) ²	2.9								1.0	1.1	1.1	2.0	2.0
Serial Output (Server) ²	3.0								1.0	1.1	1.1	2.0	2.0
TxFile (Client) ³	3.1												
TxFile (Server) ³	3.2												

² New in Release 4.0

³ New in Release 6.0

Release History Summary Matrix, Continued

System: **MPS/Aqua**

Release Number		6.0	6.1	6.2	6.3	6.4							
Delivery Date		9/28/00	11/17/00	2/9/01	06/15/01	07/03/01							
Configuration Item	CI No.												
Core (Client)	1.1	2.0	2.0	4.0	4.1	4.1							
Core (Server)	1.2	2.0	2.0	4.0	4.1	4.1							
SC-PM1 (Client)	1.3	6.0	6.0	6.2	6.3	6.4							
SC-PM1 (Server)	1.4	6.0	6.0	6.2	6.3	6.4							
GS (Client) ⁷	1.5	6.0	6.0	6.0	2.0	2.0							
GS (Server) ⁷	1.6	6.0	6.0	6.0	2.0	2.0							
IP Input (Client)	1.7	2.0	2.0	4.0	4.1	4.1							
IP Input (Server)	1.8	2.0	2.0	4.0	4.1	4.1							
IP Output (Client)	1.9	2.0	2.0	4.0	4.1	4.1							
IP Output (Server)	2.0	2.0	2.0	4.0	4.1	4.1							
DQM (Client) ⁴	2.1												
DQM (Server) ⁴	2.2												
Logging (Client)	2.3	2.0	2.0	4.0	4.1	4.1							

⁴ To be delivered in a future release

⁷ In Release 6.3 the Aura/EOSGS module replaced the Aqua/GSPM1 module

Release Number		6.0	6.1	6.2	6.3	6.4							
Delivery Date		9/28/00	11/17/00	2/9/01	06/15/01	07/03/01							
Configuration Item	CI No.												
Logging (Server)	2.4	2.0	2.0	4.0	4.1	4.1							
Scenario (Client) ⁵	2.5	2.0	2.0	4.0	4.1	4.1							
Scenario (Server) ⁵	2.6	2.0	2.0	4.0	4.1	4.1							
Serial Input (Client) ⁵	2.7	2.0	2.0	4.0	4.1	4.1							
Serial Input (Server) ⁵	2.8	2.0	2.0	4.0	4.1	4.1							
Serial Output (Client) ⁵	2.9	2.0	2.0	4.0	4.1	4.1							
Serial Output (Server) ⁵	3.0	2.0	2.0	4.0	4.1	4.1							
TxFile (Client) ⁶	3.1	2.0	2.0	4.0	4.1	4.1							
TxFile (Server) ⁶	3.2	2.0	2.0	4.0	4.1	4.1							
vcProcessor (Client) ⁸	3.3				4.1	4.1							
vcProcessor (Server) ⁸	3.4				4.1	4.1							

⁵ New in Release 4.0

⁶ New in Release 6.0

⁸ New in Release 6.3

Attachment C — Mission Systems Configuration Management Form

This attachment contains the completed Mission Systems Configuration Management (MSCM) form for the delivery of MPS/Aqua Release 6.4.

Mission Systems Configuration Management Form

1. ORIGINATOR Dave Green	2. ORGANIZATION CSC	3. PHONE 301-805-3420	4. E-MAIL ADDRESS dsgreen@csc.com
5. ELEMENT ETS (MPS/PM1)		6. INSTALLATION PRIORITY Routine	7. TRACKING NUMBER (Assigned by CM Office)
8. SOURCE CHANGE REQUEST(S): ETS delivery of MPS for EOS PM-1 (MPS/PM1)		9. APPROVALS <div style="display: flex; justify-content: space-between;"> <div>Element Manager</div> <div>_____</div> <div>____/____/____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Flight Ops Director</div> <div>_____</div> <div>____/____/____</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Operations Manager</div> <div>_____</div> <div>____/____/____</div> </div>	
10. DELIVERED SYSTEM (Check all that apply)			
	Name	Version	Media Identification
<input type="checkbox"/> Hardware	_____	_____	_____
<input checked="" type="checkbox"/> Software	MPS/PM1	R6.4	CD-ROM
<input type="checkbox"/> Database	_____	_____	_____
<input checked="" type="checkbox"/> Documentation:			
	MPS/PM1 delivery package	N/A	via email
	_____	_____	_____
	_____	_____	_____
<input type="checkbox"/> Other	_____	_____	_____
11. CHANGE DESCRIPTION Release 6.4 of MPS/PM-1 (MPS/PM-1) _____ _____ _____			
12. ATTACHMENT(S): Check if YES <input checked="" type="checkbox"/> Description: MPS/PM1 Release 6.4 delivery package (cover letter with attachments) dated 07/03/01 _____ _____			
13. CM OFFICE USE			
	Location (Bldg/Room)	Slot location(s)	
Hardware	____/____	_____	
Media	____/____	_____	
Documentation	____/____	_____	
Installation date	____/____/____	CM Office Signature _____	

Form MSCM (970327)